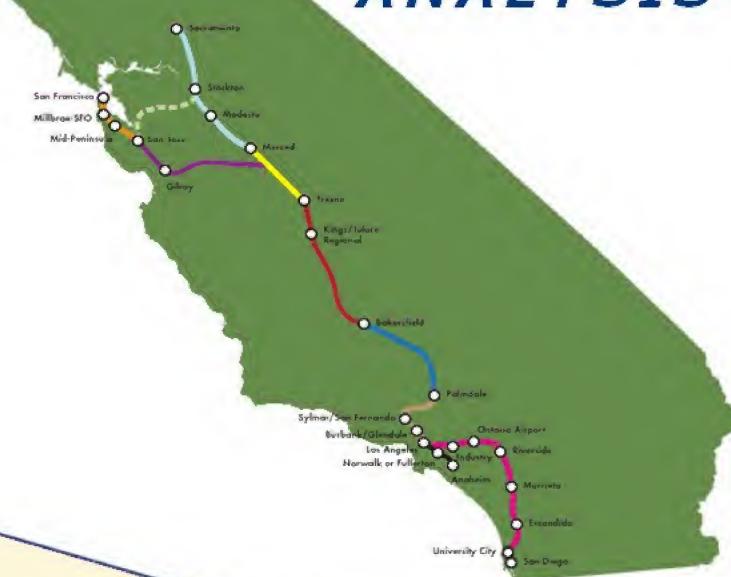
LOS ANGELES TO SAN DIEGO

LOS ANGELES TO SAN DIEGO VIA THE INLAND EMPIRE SECTION

PRELIMINARY ALTERNATIVES
ANALYSIS REPORT



Presentation to

California High-Speed Rail Authority

Board of Directors

March 3, 2011



Preliminary Alternatives Analysis Report

Los Angeles to San Diego via the Inland Empire Preliminary Alternatives Analysis Report

Now available at:

www.cahighspeedrail.ca.gov

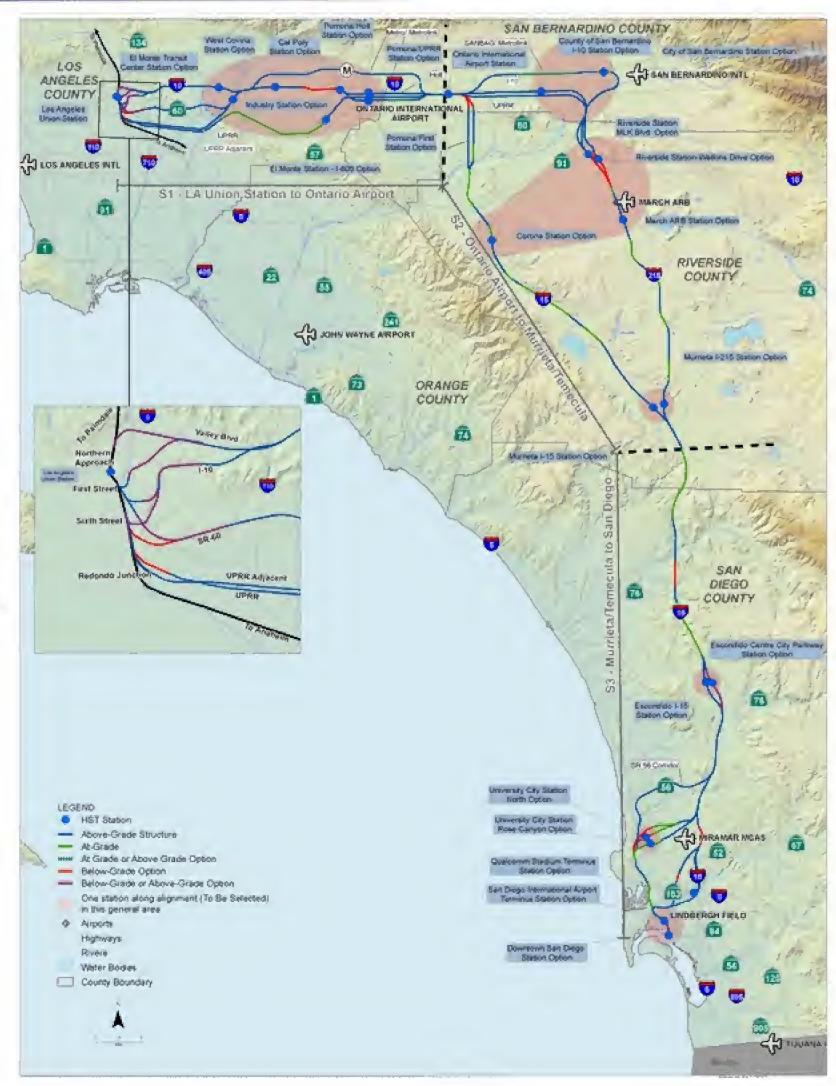
LOS ANGELES TO SAN DIEGO



LOS ANGELES TO SAN DIEGO VIA INLAND EMPIRE SECTION



- ☐ 170-Mile Corridor
 - √ 500 miles of Alternatives
- 8 Stations
 - √ 24 candidate sites
- □ 3 Caltrans Districts
 - ✓ Districts 7, 8 and 11
 - ✓ Unique interface opportunity
- ☐ 4 Counties (TWG per county)
 - ✓ Los Angeles, San Bernardino, Riverside, San Diego
- Nearly 100 Cities
- ☐ Alignments run through:
 - √ 19 Congressional Districts
 - √ 23 State Senate
 - √ 31 State Assembly



Southern California Inland Corridor Group (MOU Partners)



















CHSRA BOARD MEETING FEBRUARY, 2010

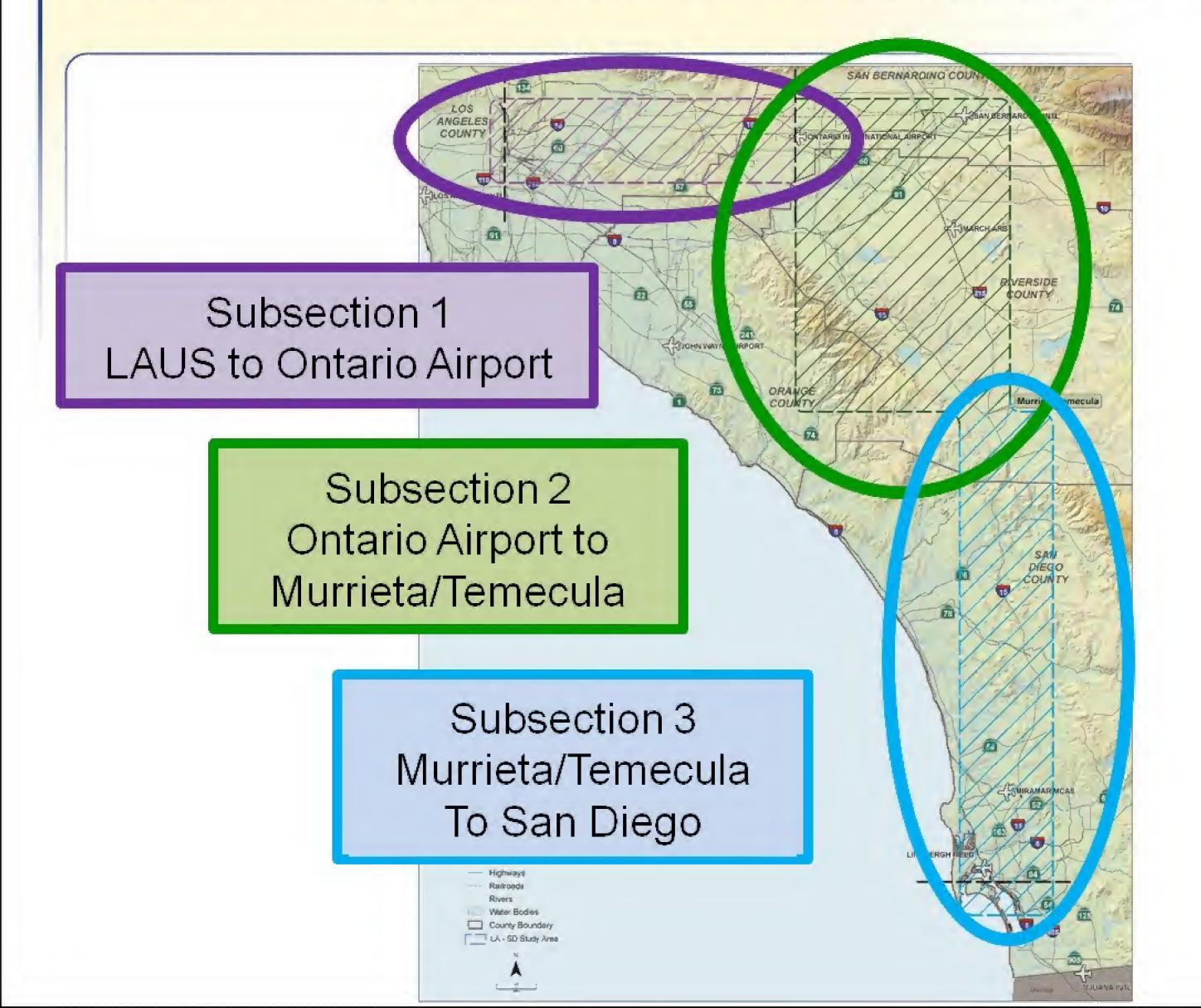


- Reviewed Draft Scoping Report with Board
- Regional support for addition of I-10 alternative and San Gabriel Valley El Monte Station
- Proposed I-10 alternative emulates Regional High Speed Transport Studies along corridor
- Regional support in San Diego for additional alternatives



PROJECT STUDY AREA: SUBSECTIONS



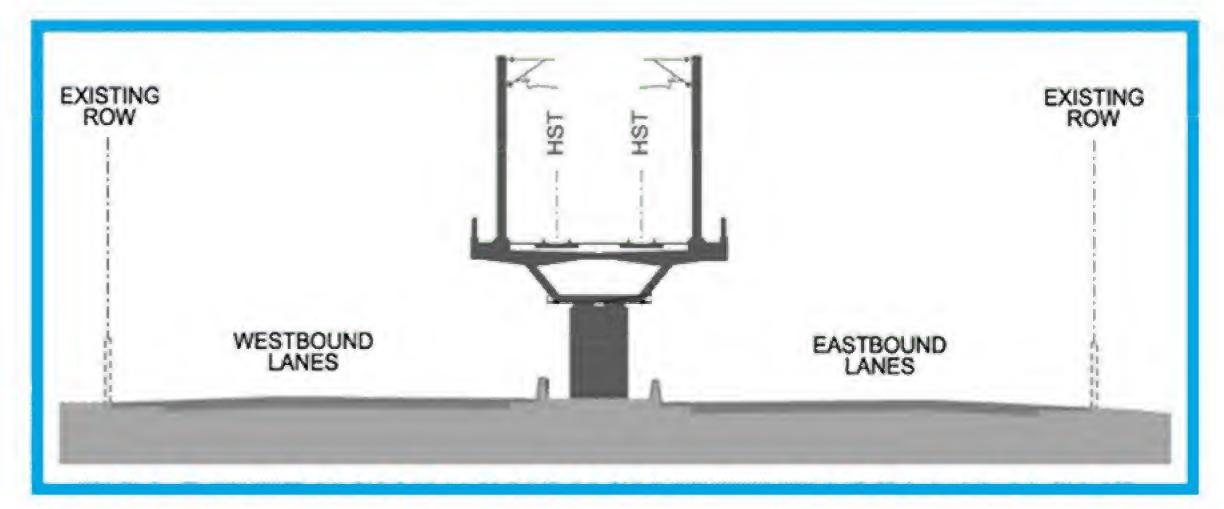


TYPICAL SECTIONS



At-Grade



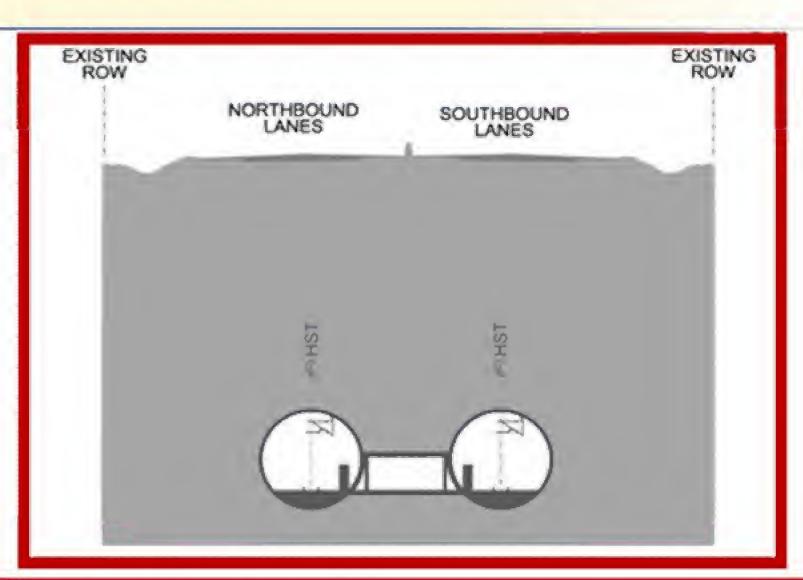


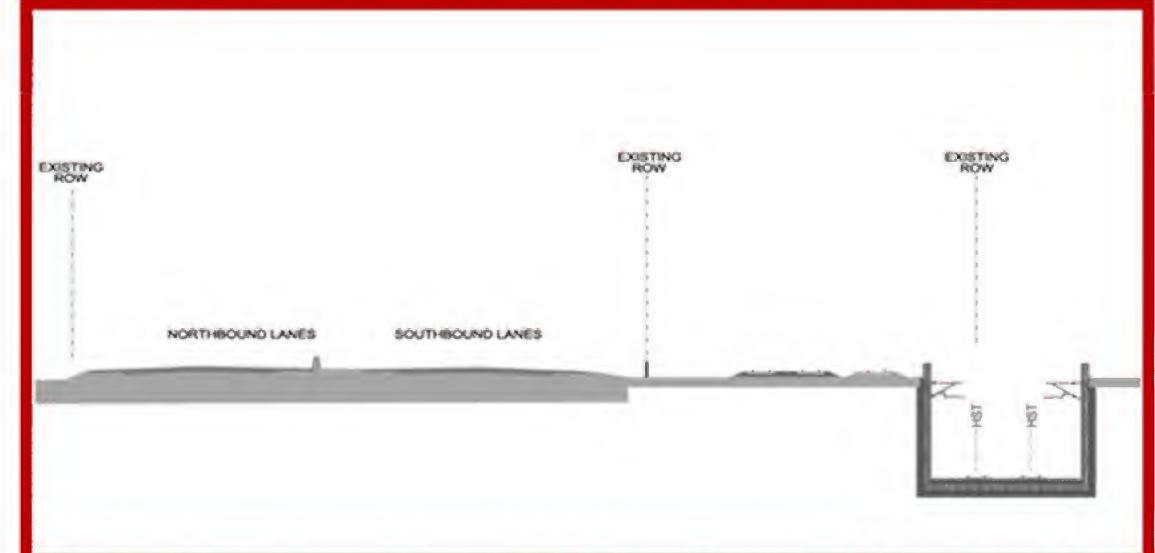
Above Grade Structure

TYPICAL SECTIONS BELOW GRADE OPTIONS



Bored-Tunnel

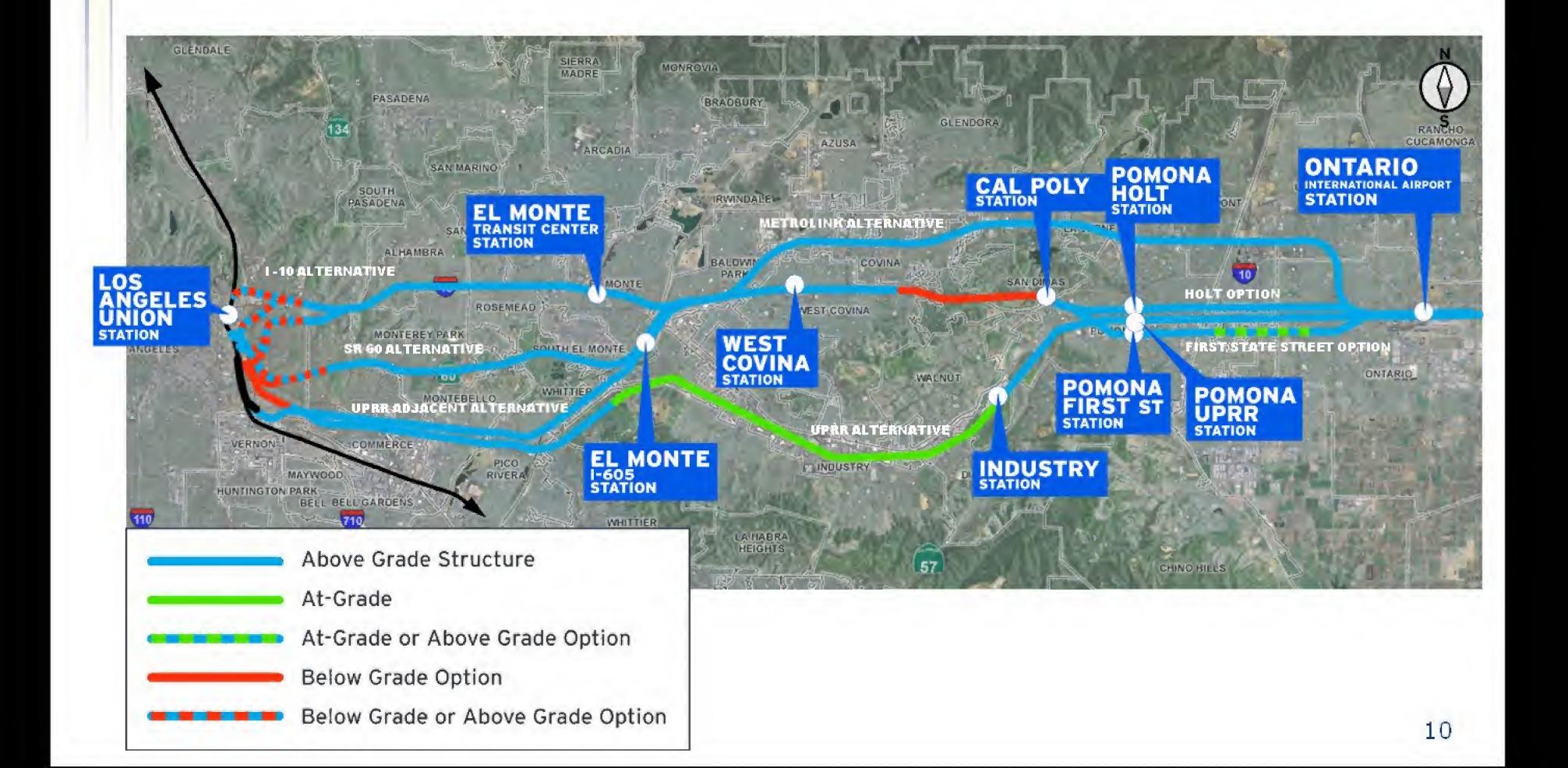




Trench

CALIFORNIA High-Speed Rail

Los Angeles to Ontario International Airport





Los Angeles to Ontario International Airport

RECOMMENDED FOR WITHDRAWAL:

S1-A3: UNION PACIFIC RAILROAD (UPRR)

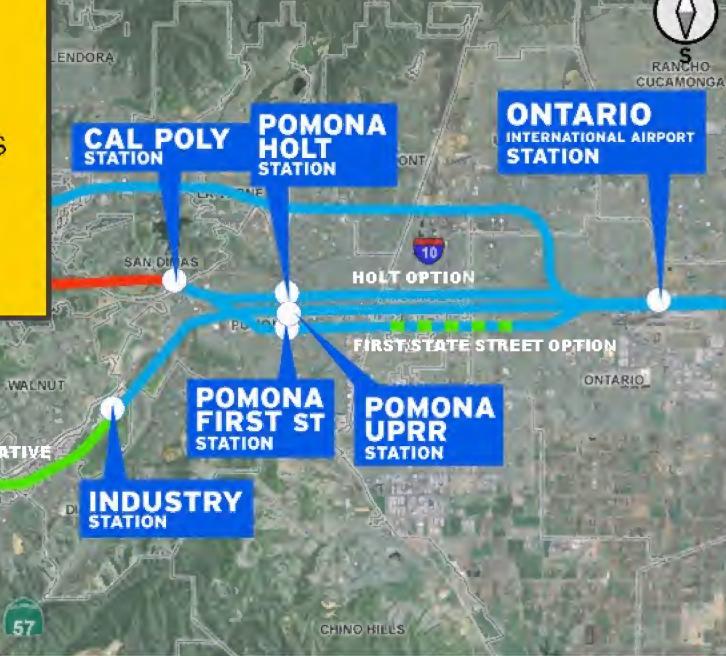
- UPRR operational and capacity constraints affecting critical freight rail corridor
- High disruption of industrial uses associated with UPRR operations
- Constrained geometrics

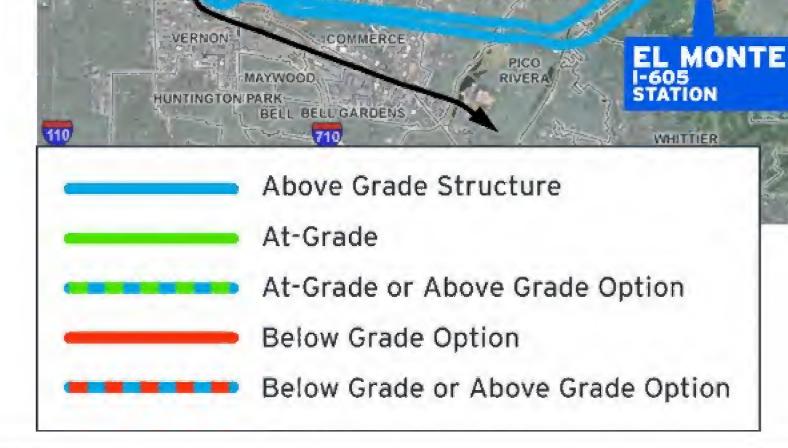
Industry Station Option

 Alignment alternative for this station was withdrawn.

Pomona/UPRR Station Option

 Alignment alternative for this station was withdrawn.



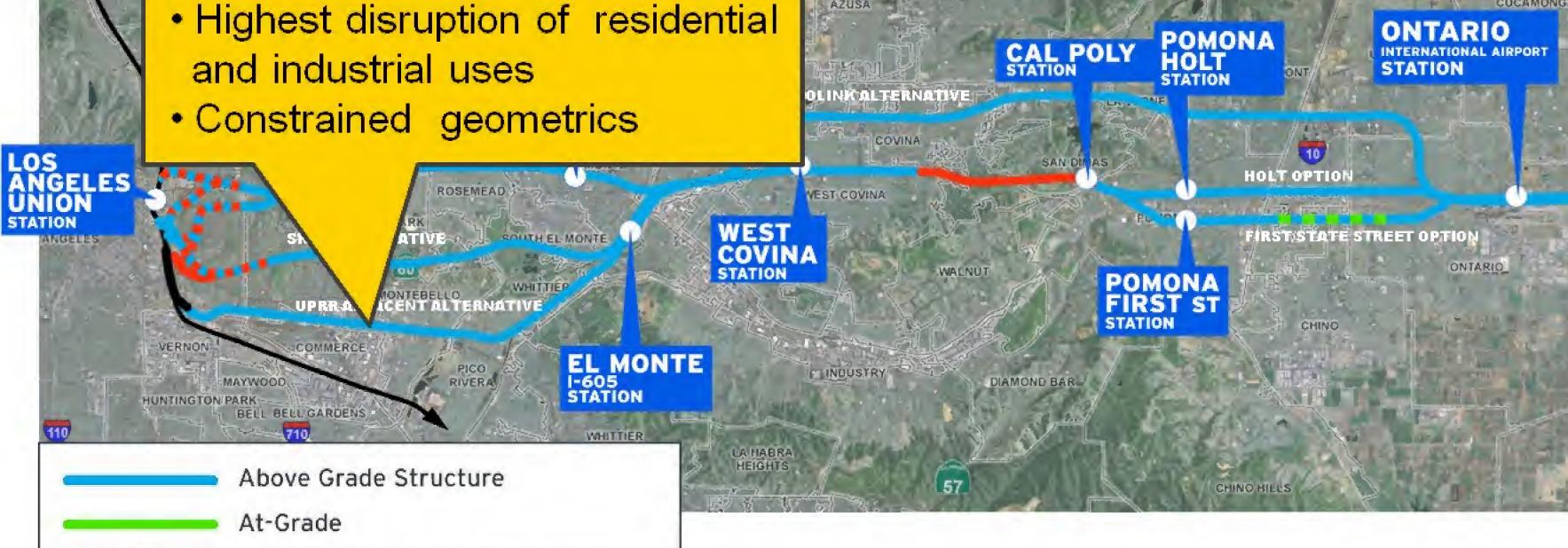


UPRR ADJACENT ALTERNATIVE



Los Angeles to Ontario International Airport

RECOMMENDED FOR WITHDRAWAL: S1-A4: UPRR ADJACENT Impacts UPRR related industrial activities Highest disruption of residential



At-Grade or Above Grade Option Below Grade Option

Below Grade or Above Grade Option

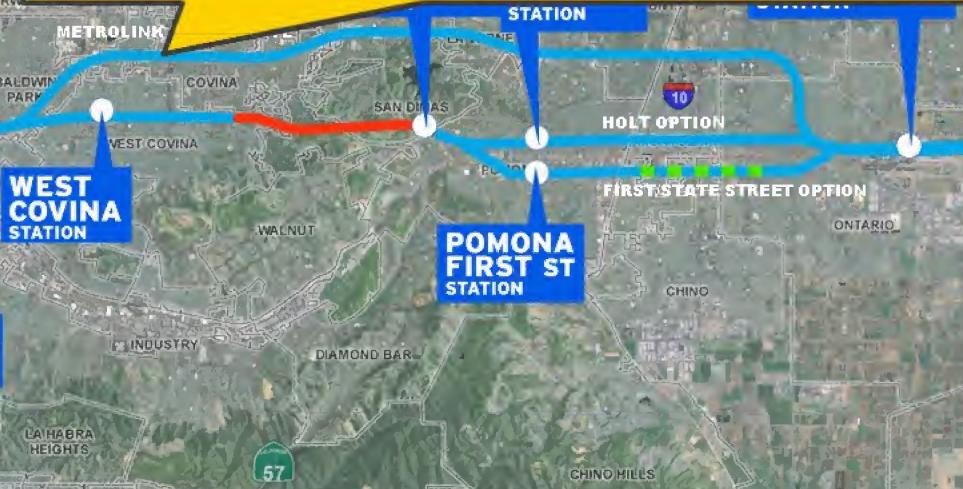


RECOMMENDED FOR WITHDRAWAL:

S1-A5: METROLINK TO ONTARIO

- High disruption to residential uses including historic district in City of Claremont
- Highly constrained Metrolink ROW
- Impacts to existing BNSF and Metrolink operations
- Undesirable HST operations due to limited speeds







Los Angeles to Ontario International Airport

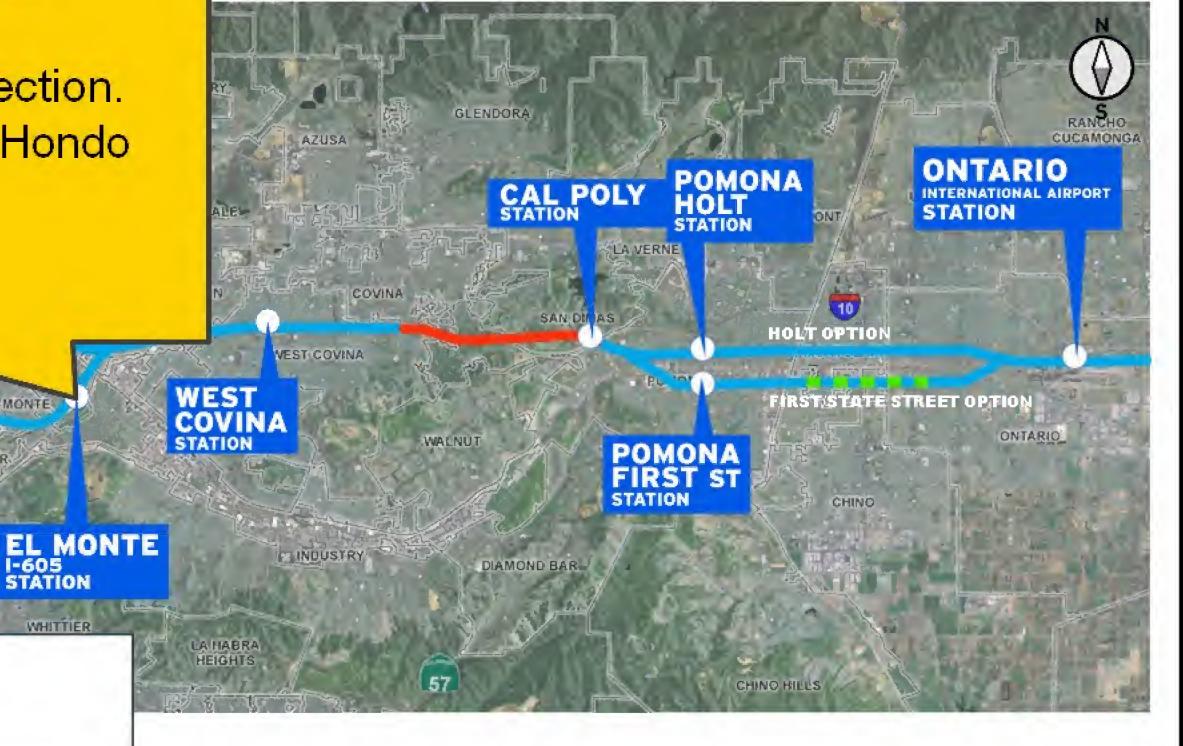
OUTH EL MONTE

RECOMMENDED FOR WITHDRAWAL:

El Monte I-605 Station Option

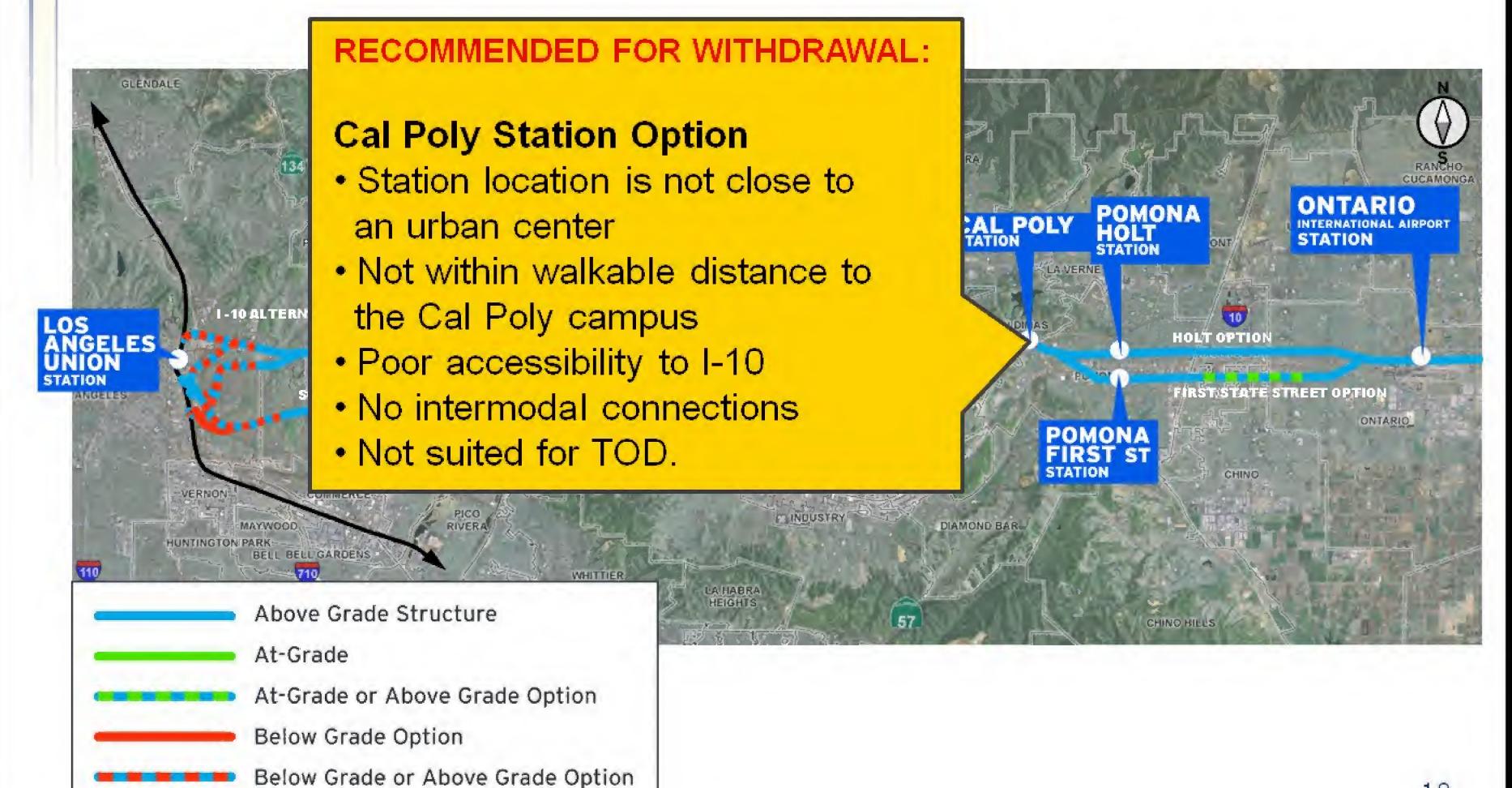
- Station site not close to urban center
- No major intermodal connection.
- Encroachment on the Rio Hondo River channel

R GO ALTERNATIVE



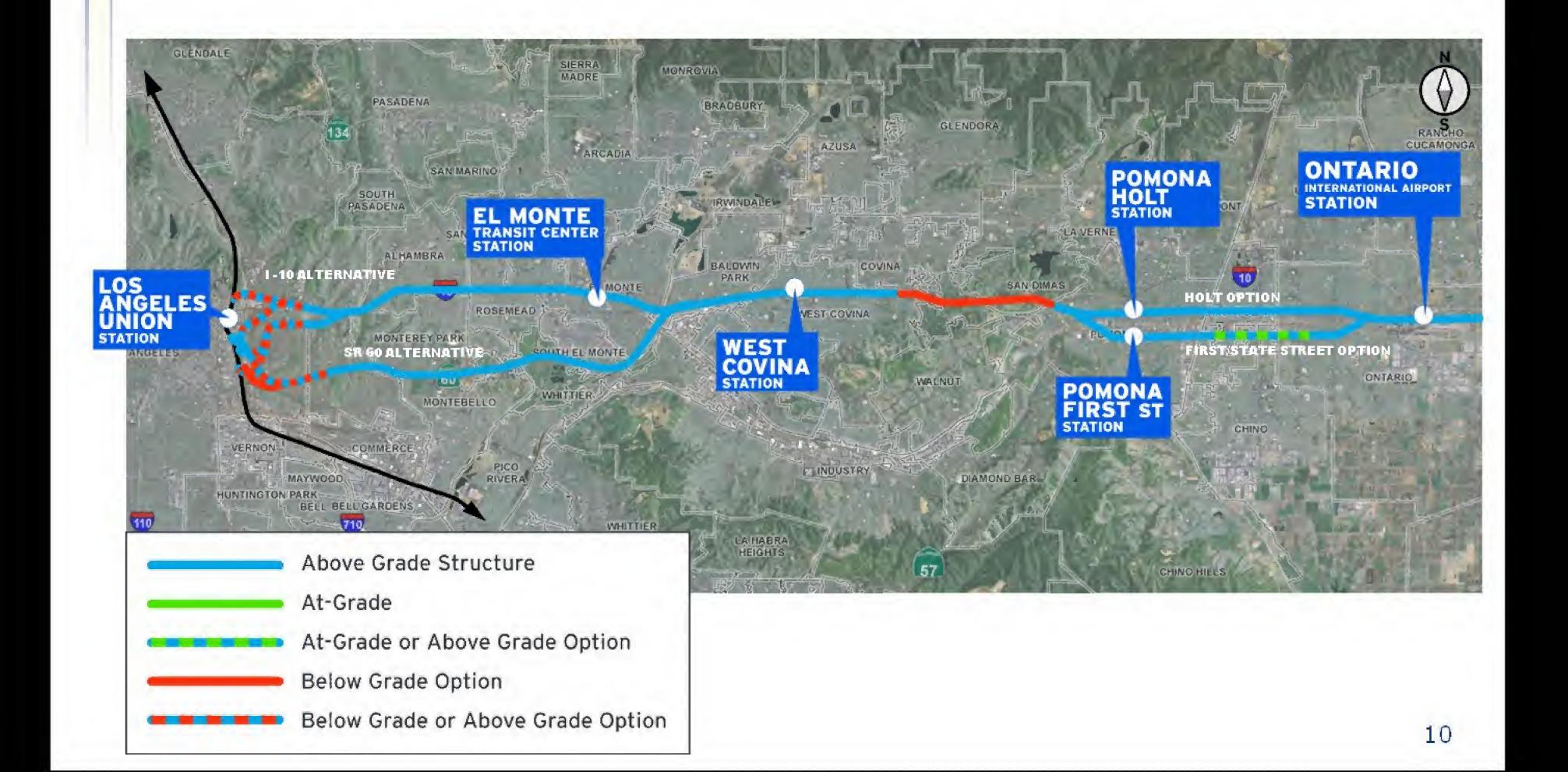




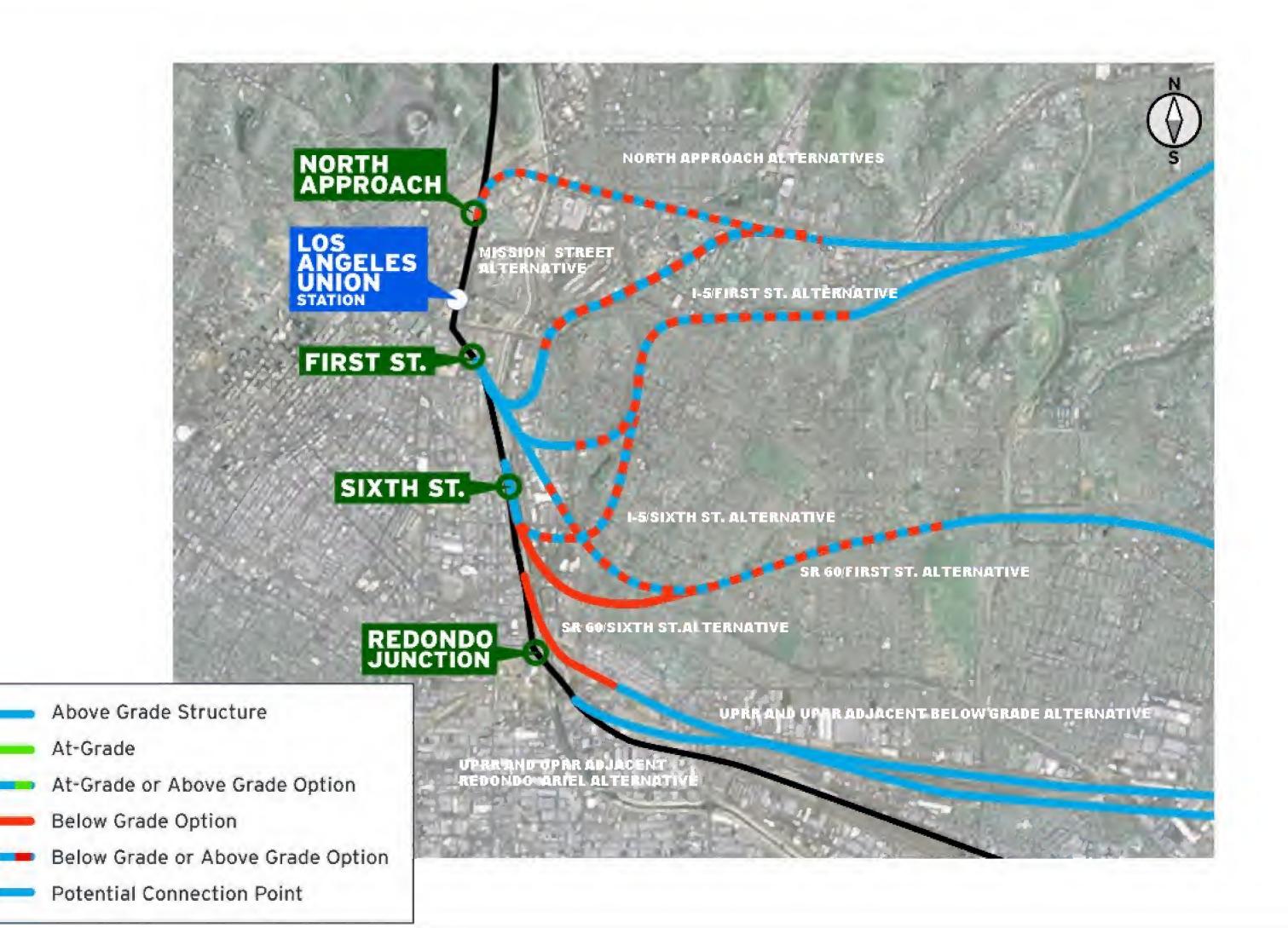


CALIFORNIA High-Speed Rail

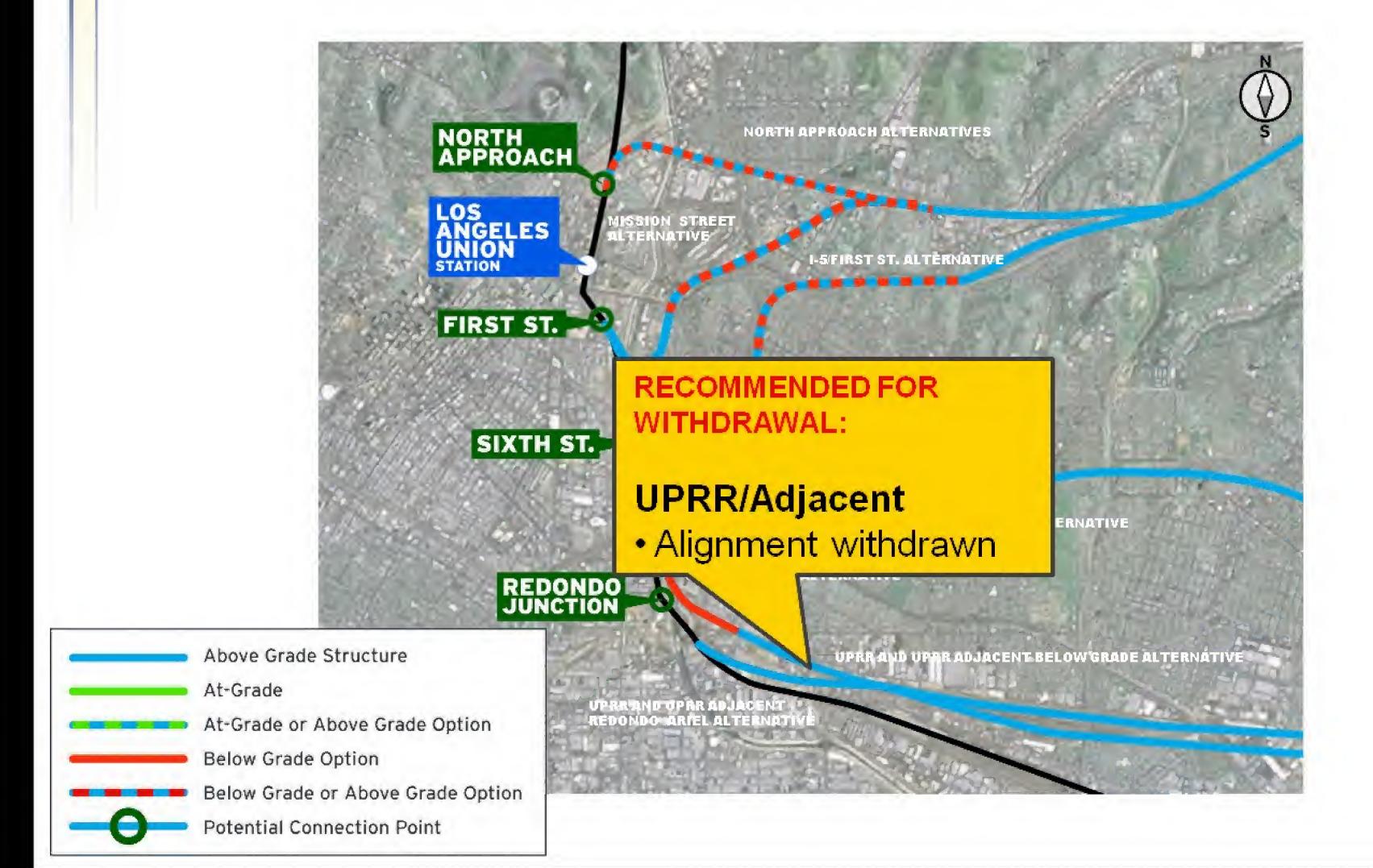
Los Angeles to Ontario International Airport



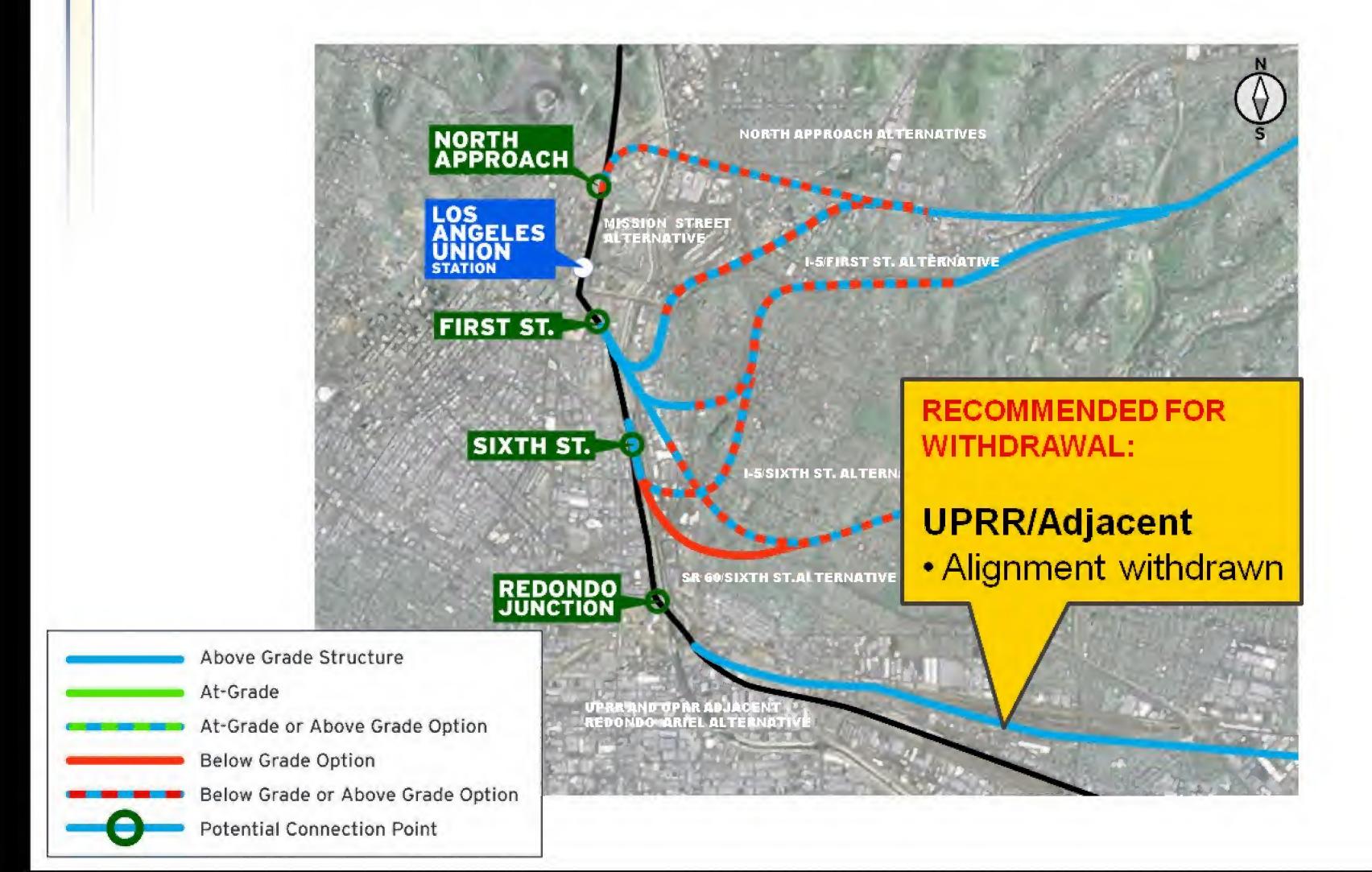










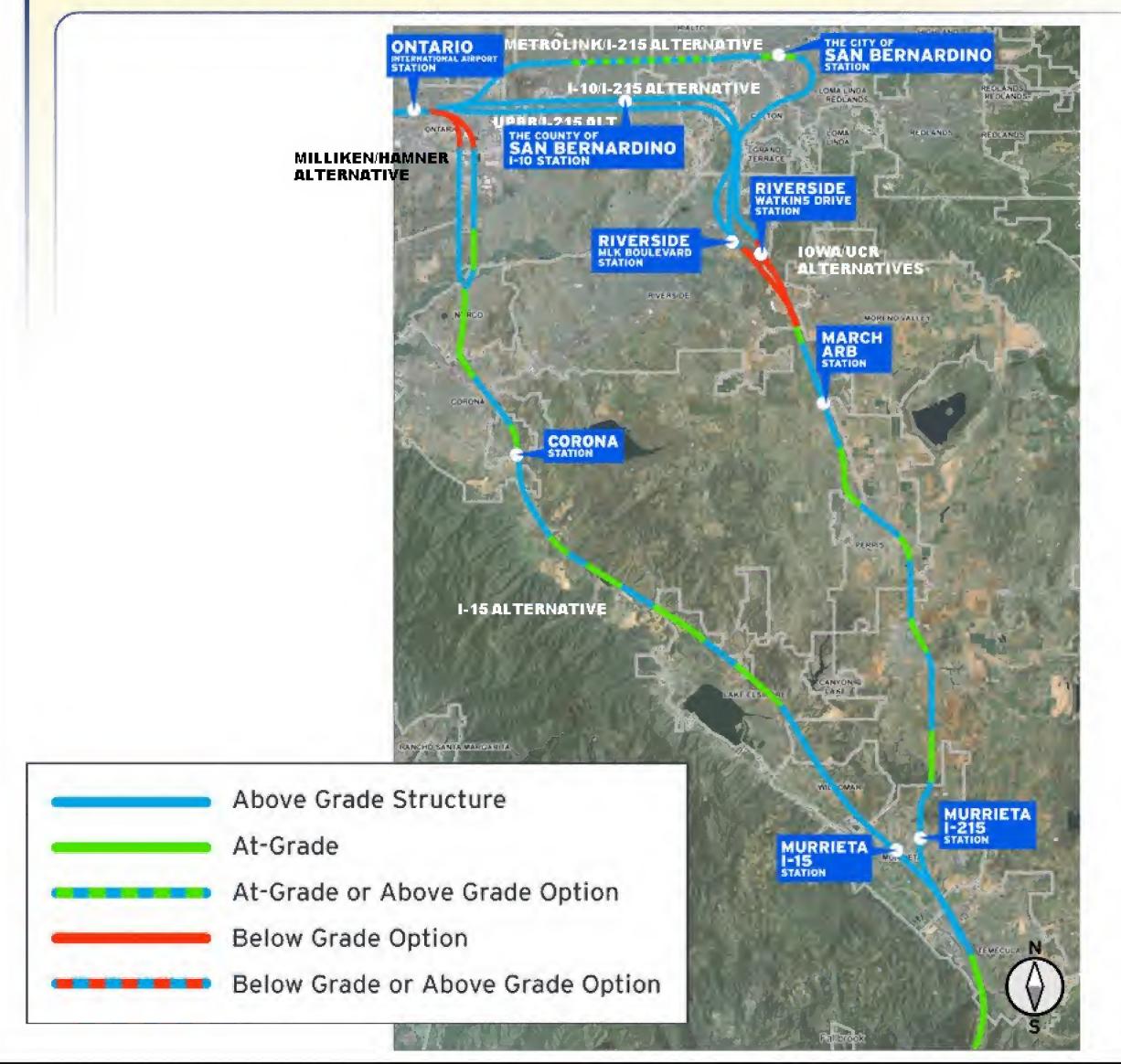








Ontario International Airport to Murrieta/Temecula





Ontario International Airport to Murrieta/Temecula



MURRIETA

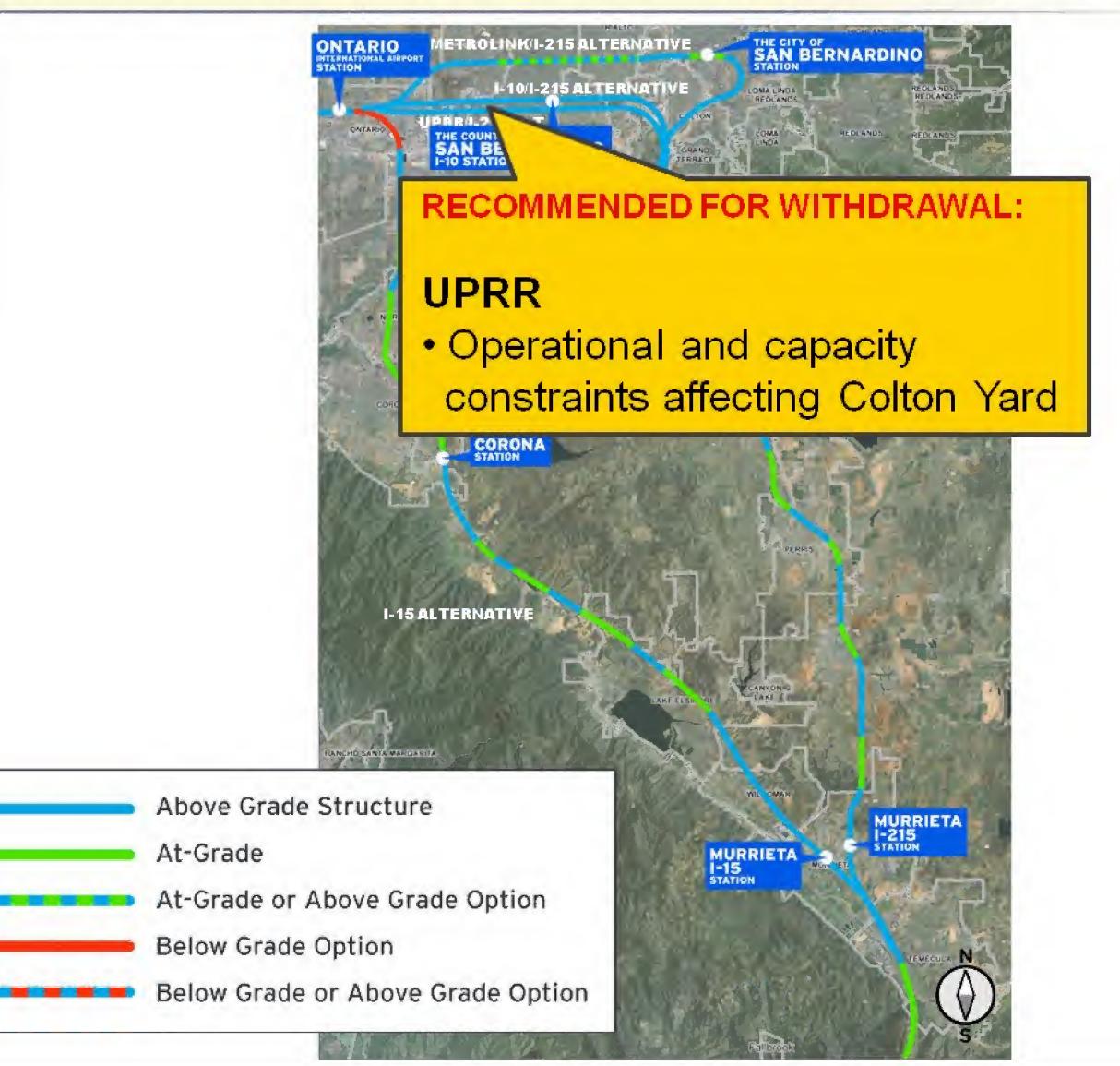
RECOMMENDED FOR WITHDRAWAL:

I-15 Corridor - Milliken/Hamner to Corona (A4.1)

 Affects an existing parcel conserved with Section 6(f) funds for the federally endangered Delhi Sands flower-loving fly



Ontario International Airport to Murrieta/Temecula





Ontario International Airport to Murrieta/Temecula



MURRIETA 1-215

IOWA/UCR ALIGNMENTS IOWA

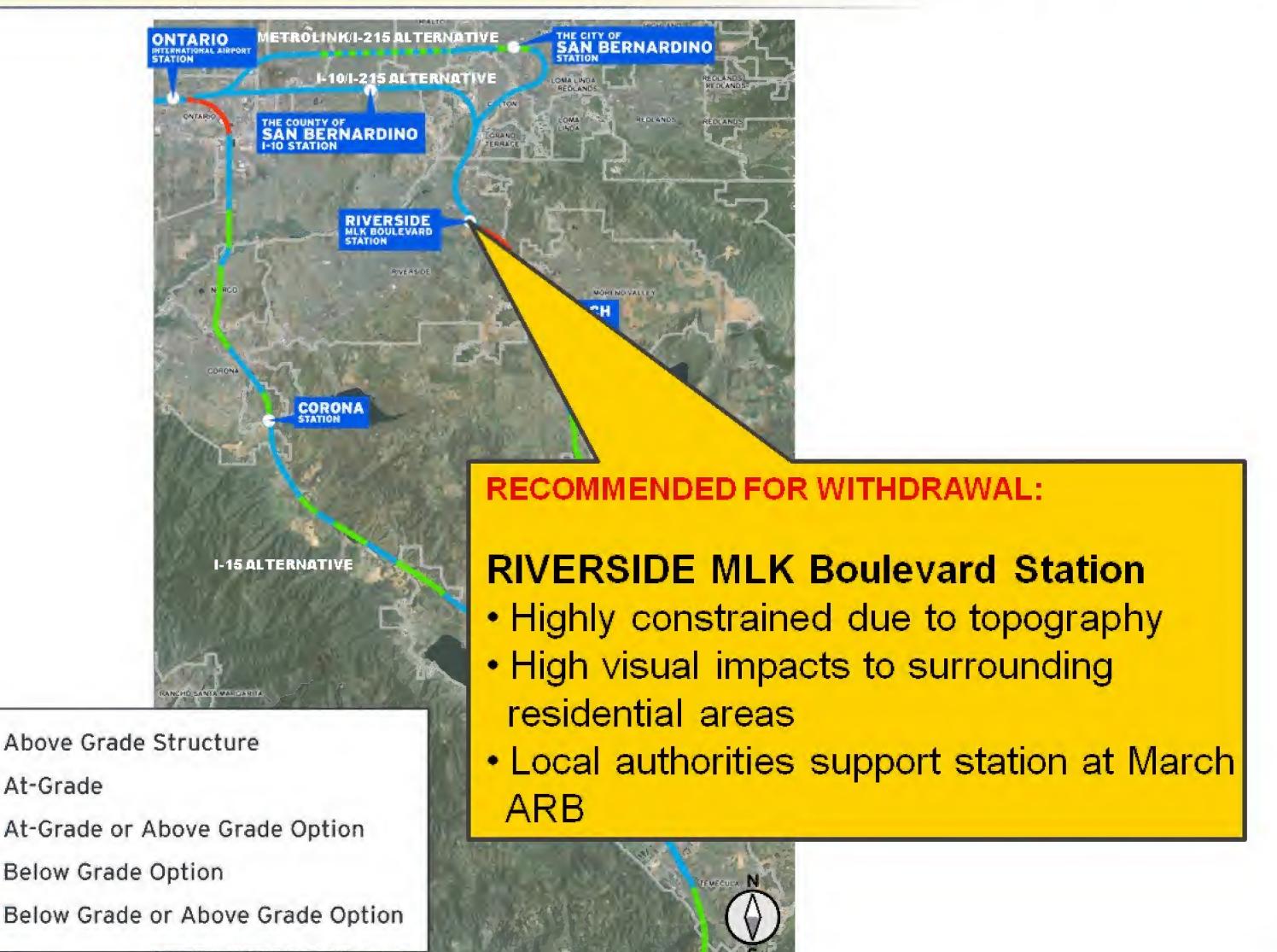
- Higher impacts on residential, commercial, and industrial uses
- Iowa Avenue alternative is off the I-215 Freeway for a longer distance

<u>UCR</u>

 Not consistent with UC Riverside Master Plan



Ontario International Airport to Murrieta/Temecula

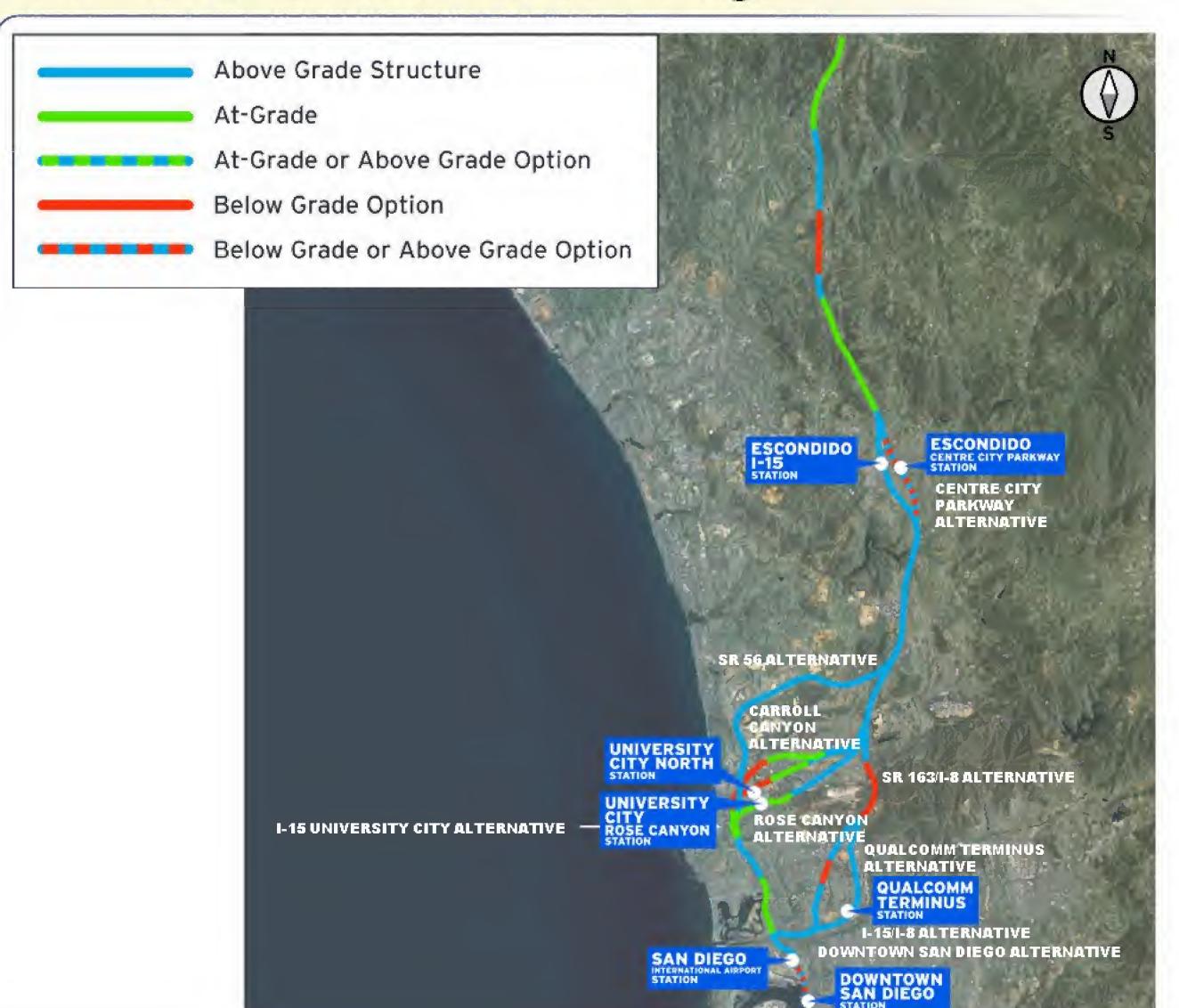




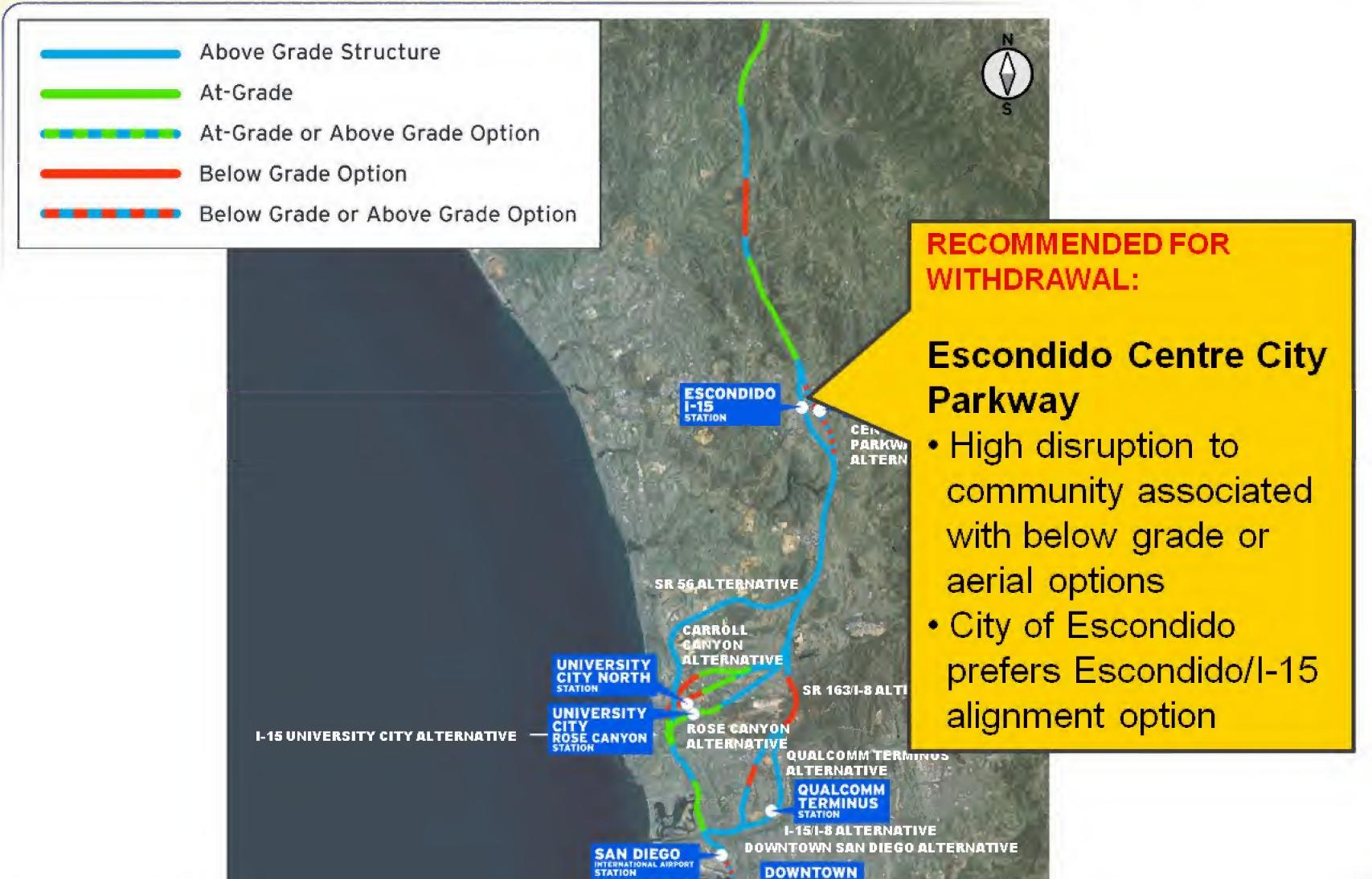
Ontario International Airport to Murrieta/Temecula











Murrieta/Temecula to San Diego



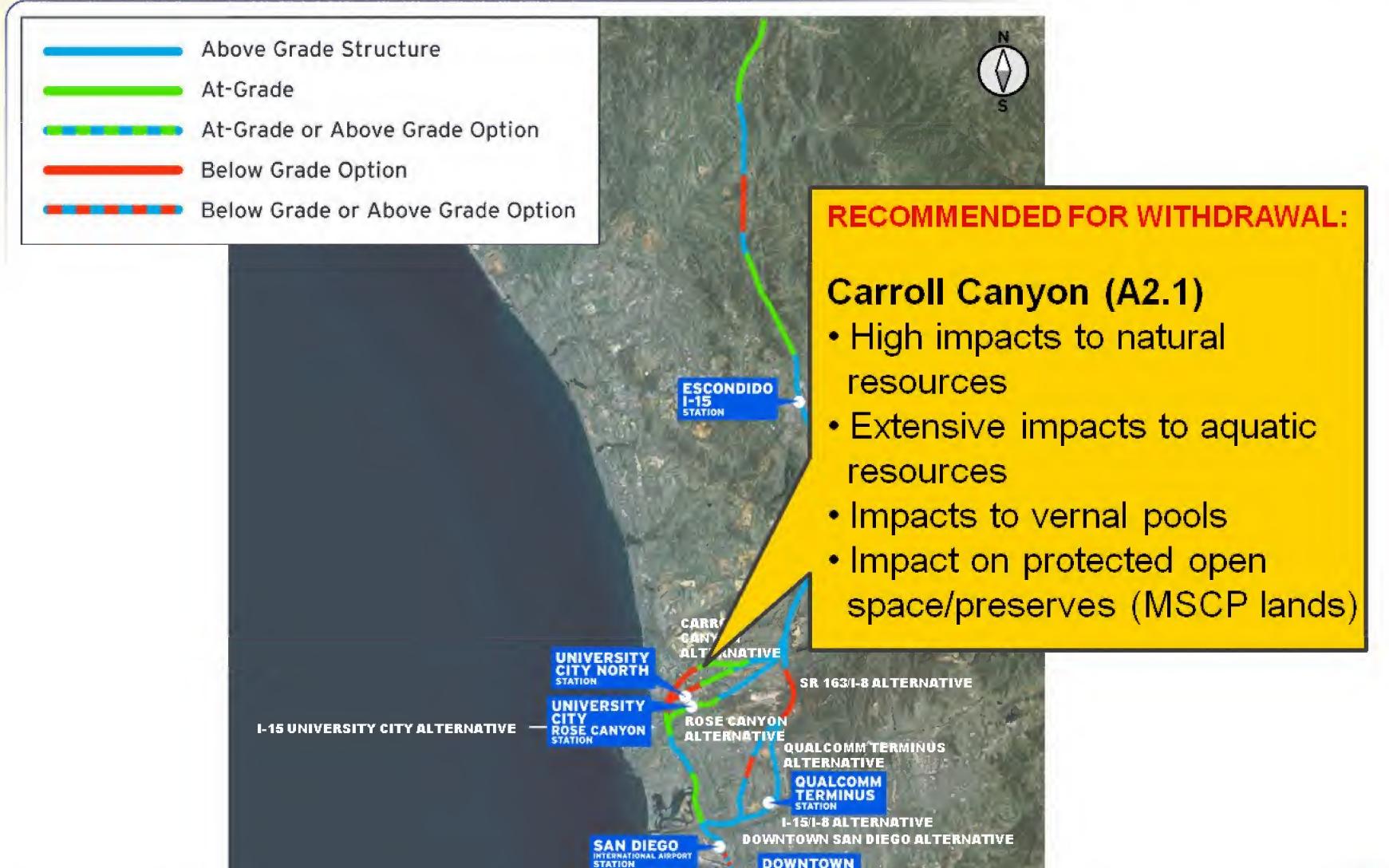
RECOMMENDED FOR WITHDRAWAL:

SR 56

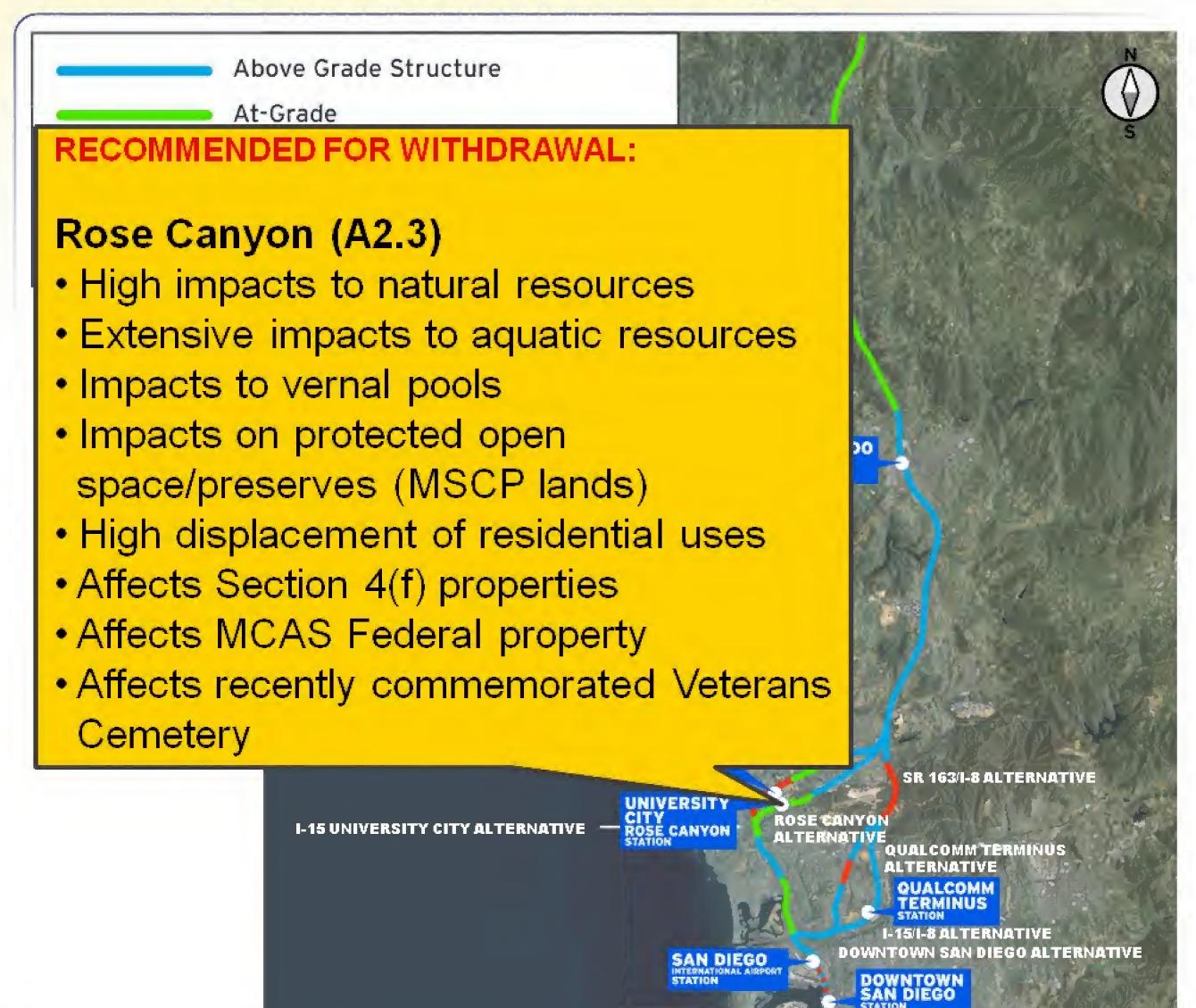
- Highest impact of natural resources
- Highest displacement of residential uses
- Extensive impacts to aquatic resources
- Impacts to vernal pools
- Impacts to USFWS trust lands
- Impacts on protected open space/preserves (MSCP lands)
- Lower design speeds affect HST operations











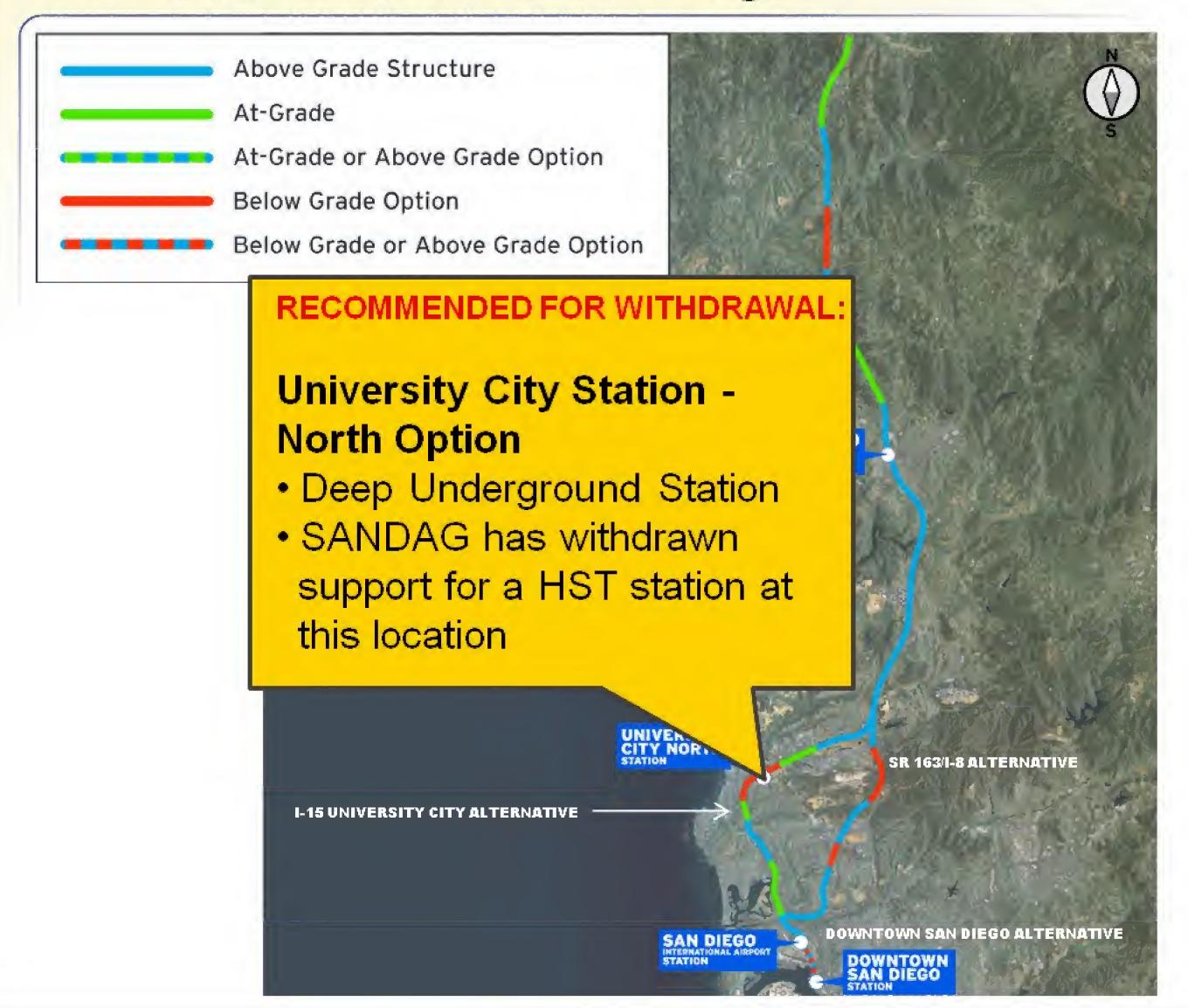






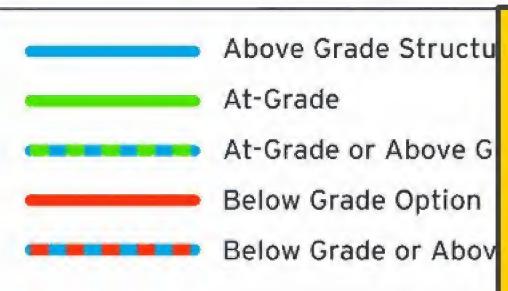






Murrieta/Temecula to San Diego





RECOMMENDED FOR WITHDRAWAL:

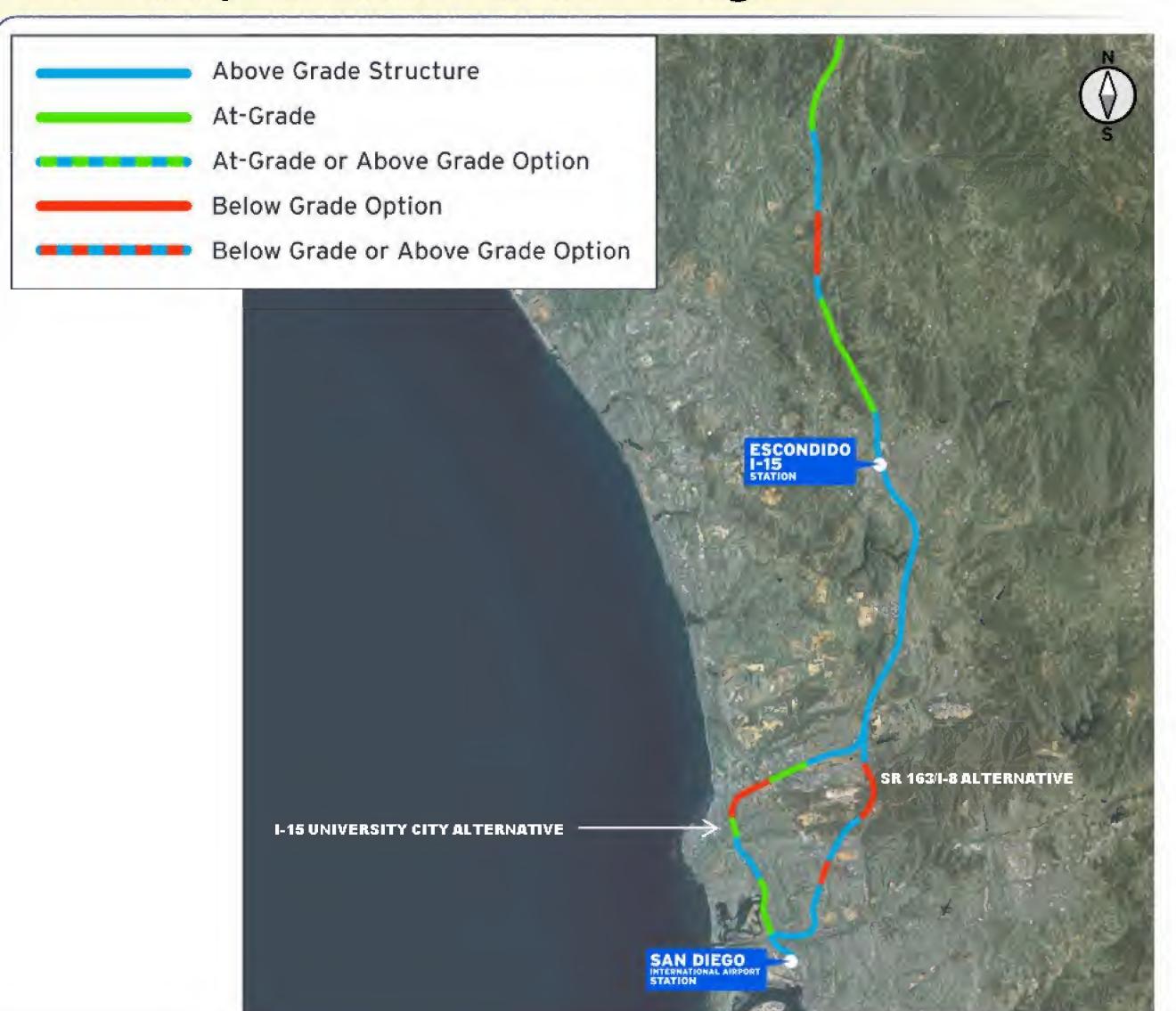
Downtown San Diego Alignment and Station Option

- Impacts to downtown waterfront development
- Impacts Santa Fe Depot, listed on the National Register of Historic Resources
- Conflicts with planned development (north Embarcadero Redevelopment Plan)
- Substantive disruption impacts to existing rail operations
- High visual and traffic impacts
- Local agencies prefer SDIA option

I-15 UNIVERSITY CITY







SUMMARY OF PRELIMINARY ALTERNATIVES ANALYSIS RESULTS



- Reduced <u>500</u> miles of Alternatives Alignments and design options to <u>290</u> miles (corridor length <u>170</u> miles)
- Reduced <u>24</u> Station Options to <u>13</u>
- Recommended withdrawal of alignments for utilizing UPRR ROW or immediately adjacent to UPRR
- Concluded a variety of Alternative Alignments will allow for meeting the 1 hour 20 minute express run-time requirement
- Recommended that San Diego International Airport is an appropriate terminus for the HST system

MORE ANALYSIS NEEDED



Continued review of these areas:

 LAUS connections (Los Angeles County) Ensuring connectivity with other HST sections

- I-10 and SR 60 (Los Angeles County)
- Holt and First Street/State Street
 (Los Angeles and San Bernardino Counties)
- Metrolink San Bernardino and I-10 (San Bernardino County)
- I-15 and I-215 (Riverside County)
- LOSSAN and SR 163 (San Diego County)

- Investigate vertical profiles in areas voicing concern
- Ridership evaluation
- Compare relative costs
- Confirm operational effectiveness
- Confirm compatibility of HST with other proposed transportation projects
- Relative environmental impacts

ALIGNMENTS AND STATIONS RECOMMENDED TO BE CARRIED FORWARD







March 3, 2011 • Preliminary Alternatives Analysis Report to CHSRA Board

March – June, 2011

- Public Open House Meetings (up to 28 meetings in four counties)
- Continue to work with communities and So Cal ICG on alignment and station refinements

FY 11-12

• Supplemental Alternatives Analysis Report *

FY 12-13 thru FY 14-15

- Preliminary Engineering *
- Draft Environmental Impact Statement/Report *

FY 15-16

- Final Environmental Impact Statement/Report *
- Record of Decision and Notice of Determination *

^{*}Schedule subject to change dependent upon project funding.